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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/335,608	06/18/1999	TIMOTHY J. MOULSLEY	PHB-34-257	6666
24737	7590 03/09/2005		EXAMINER	
PHILIPS INTELLECTUAL PROPERTY & STANDARDS			HYUN, SOON D	
P.O. BOX 300 BRIARCLIFF	O. BOX 3001 RIARCLIFF MANOR, NY 10510		ART UNIT	PAPER NUMBER
	,		2663	
			DATE MAILED: 03/09/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/335,608	MOULSLEY, TIMOTHY J.				
Office Action Summary	Examiner	Art Unit				
	Soon D Hyun	2663				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a repty be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status	•					
1)⊠ Responsive to communication(s) filed on 17 Ja	nnuary 2005.	,				
	action is non-final.					
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	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ☐ Claim(s) 1,2,4-7,9-17 and 21-31 is/are pending 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1,2,4-7,9-17 and 21-31 is/are rejected 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on is/are: a) ☐ accertance and not request that any objection to the or	vn from consideration. I. r election requirement. r. epted or b) □ objected to by the I					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of the certified copies 	s have been received. s have been received in Applicati ity documents have been receive ı (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)	ate				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:	atent Application (PTO-152)				

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 01/17/05 has been entered.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1, 2, 4-7, 9, 11, 15-17, 21, 22, and 25-31 are rejected under 35 U.S.C. 102(e) as being anticipated by Hamalainen et al (U.S. Patent No. 6,477,176).

Regarding claims 1, 2, 6, 9 and 11, Hamalainen discloses a telecommunication system suitable for transmitting real-time data (speech) and non-real time packet data, comprising:

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a first (a mobile communication system terminal in FIG. 1) and a second communication station (a base station BTS in FIG. 8c);

a dual mode channel for communication of both the real time and the non-real time data from the first to the second station, wherein the first station comprises a first transceiver which is operable to transmit both the real-time and the non-real-time data. the second station comprises a second transceiver which is operable to receive the real-time and/or the non-real-time data (col. 3, lines 29-67), the first station further comprises a controller (10) for generating an output data stream (FIG. 3) comprising the real-time data (speech signal), the controller also allocating non-real-time packet data (col. 4, lines 25-38) to the output data stream when the data rate of the real-time is less than the full capacity of the dual mode single channel, which output data stream is transmitted by the first transceiver over the channel, wherein for at least part of output stream (a frame period in FIG. 3 is part of a multiframe, col. 4, line 33), the real time data and non-real time packets each have a respective non-zero minimum bit rate and combined bit rate less than a maximum value for the multiframe period, i.e., the terminal has no speech information to transmit (DTX), wherein the part of the output stream is a single time slot (a period of the frame in FIG. 3).

Regarding claims 4 and 7, Hamalainen further discloses that the terminal comprises a buffer (9) for storing the non-real-time packet data for transmission.

Regarding claim 5, Hamalainen further discloses that the invention is applied to a cellular communication system (FIG. 8c) comprising a base station 33 (BTS) as the first tranceiver and a mobile station 32 (MS) as the second tranceiver.

Regarding claim 10, refer to the discussion for claim 1. Examiner interprets that the single channel is the dual mode channel carrying the real time data and non-real time packet data in the multiframe.

Regarding claims 15 and 27, refer to the discussion claims 1 and 10.

Hamalainen discloses a receiving method (FIG. 2) comprising:

receiving a combined data from a transmission channel by a mobile communication system terminal in FIG. 2;

demodulating the data stream by a receiver (13); reading frame header (SP-ID or D-ID in FIG. 3) to determine which frames contain packet data and which frames contain speech data;

reconstituting the speech and packet data; and

providing the speech data to a speech decoder(3) and packet data output signal at distinct output devices (col. 4, lines 1-10), wherein the header indicates both the packet data and speech data being in a single dual mode channel, i.e., the header D-ID in a frame indicates both the packet data and speech data being in a single dual mode channel, because the packet data can be in the channel when the speech data is absent in the frame period, therefore, both speech data and packet data are in a dual mode channel of a multiframe (see the discussion for claims 1 and 10) having a plurality of frames.

Regarding claims 16, 21, and 25, refer to the discussion for the claims 1 and 10.

Hamalainen discloses a method comprising: accumulating non-real time packet data in a buffer (9 in FIG. 1):

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allocating real-time data (speech) by a controller (10 in FIG. 1) to an output stream (FIG. 1);

determining when the real-time data does not require the full capacity of a transmission channel, i.e., a VAD (4 in FIG. 1) indicates the time of interruptions in the speech data;

allocating the non-real time packet data to the output data stream, when the realtime data does not require the full capacity of a transmission channel

allocating output data stream to a channel that occupies more than one slot (frame), i.e., multiframe in a transmission time frame.

Regarding claims 17 and 26, refer to the discussion for claims 1, 10, and 16.

Hamalainen discloses a method comprising:

accumulating non-real time packet data in a buffer (9 in FIG. 1);

allocating real-time data (speech) and the non-real time packet data in a variable proportions to multiple time segments (a plurality of frames in FIG. 3) within a time frame (a time of multiframe, col. 4, line 33) by a controller (10 in FIG. 1) to an output stream (FIG. 1) when the real-time data does not require the full capacity of a transmission channel; and

transmitting the time frame.

Regarding claim 22, refer to the discussion for claim 1, 10, and 15.

Hamalainen further discloses that the packet data and the speech data appear together in one single time slot (a time of multiframe, col. 4, line 33).

Regarding claim 28, Hamalainen discloses a method of transmitting an output data stream (FIG. 1) including both real-time data (speech) and non-real time data (data from a buffer 9 in a single time slot (a time period of multiframe, col. 4, line 33).

Regarding claim 29, the frame header D-ID in a frame (FIG. 3) indicates both real time and non-real time data resides in a single time slot, because the packet data can be in the multiframe when the speech data is absent in the frame period, thus both speech data and packet data are in the multiframe (see the discussion for claims 1 and 10) having a plurality of frames.

Regarding claim 30, Hamalainen discloses a method of receiving a data stream (FIG. 2) including both real-time data (speech) going to a speech processing (3) and non-real time data going to a buffer (9) in a single time slot (a time period of multiframe, col. 4, line 33).

Regarding claim 31, refer to the discussion for claim 29.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 12 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hamalainen et al (U.S. Patent No. 6,477,176).

Refer to the discussion for claim 1.

However, Hamalainen does not explicitly teach that the data from a computer (6) is multimedia. It will be apparent to those of skill in the art that the computer could transmit and receive multimedia such as voice, video image, and data.

Therefore, it would have been obvious to one having ordinary skill in the art to transmit a first type (video) from the computer, second type (speech) form a microphone (1) and third type data (data) from the computer.

6. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hamalainen et al (U.S. Patent No. 6,477,176) in view of Gudmundson (U.S. Patent No. 5,341,397).

Refer to the discussion for the claim 1.

However, Hamalainen discloses that the invention is generally implemented in GSM (TDMA) and thus, does not explicitly teach that the system could be applicable on a CDMA transmission method. Gudmundson discloses a DTX on a CDMA transmission system.

Those of skill in the art would have been motivated to apply a CDMA protocol using a single spreading code to each mobile for the DTX of Hamalainen to take advantage of using the CDMA such as increasing the system capacity and reducing interference. Therefore, it would have been obvious to one having ordinary skill in the art to apply a CDMA protocol to the DTX of Hamalainen.

7. Claims 23 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hamalainen et al (U.S. Patent No. 6,477,176) in view of Feldman (U.S. Patent No. 6,393,000).

Refer to the discussion for claims 2 and 7.

However, Hamalainen differs from the present application in that the controller receives the timing information form the VAD, while the present application receives it form the speech coding system.

Feldman teaches a speech coder (10 in FIG. 2) for a method of transmission of data during absence of speech signal, wherein a VAD is incorporated into the coder.

Those of skill in the art would have been motivated by Feldman to integrate the VAD (4) of Hamalainen into the speech coding system (speech processing circuit 3) to reduce a occupying space by combining the two circuitries.

Therefore, it would have been obvious to one having ordinary skill in the art for the controller of Hamalainen to receive the timing information from the speech processing circuit integrated with the VAD (speech coding system).

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Soon D Hyun whose telephone number is 571-272-3121. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Q. Ngo can be reached on 571-2723139. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/ S. Hyun 03/04/2005

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